

INTERMOUNTAIN LIFT INC.  
P. O. Box 21 2000 South Main  
SPRINGVILLE, UTAH 84663

5071

6-6-75

### Bridal Veil Falls Tramway

Type: Bauchman Reversible Tram

Year Installed: 1960 - 1961

Vertical Rise: 1228 ft.

Longitudnal Travel: 1753 ft.

Capacity per cabin: 6 passenger or 1200 pounds

Empty weight per cabin: Approximately 800 pounds

Number of sheaves per cabin: 8 ea 8" Dia. Total sheave frame length 8' 2"

Operator controls at lower terminal only.

Track rope & counter weight system: .960 flat wound lock coil rope anchored at top to concrete deadman with 4 wraps around hardwood lined oval shape. Then over two saddles each side at top, then down to and under bronze lined saddles and connected to 1 3/8" dia. wire rope which breaks over hardwood lined counter weight sheaves then ties off to 28,000 pound counter weight.

Haul rope & counter weight system: 1/2" dia. 6X7 hemp core wire rope is used for tail rope and head rope. Tail rope is tied to #1 cabin with lead socket connection down to and thru a double 3000 pound ea counter weight system, and then back up to # 2 cabin. The head rope connects the two cabins together with a lead socket connection from the upper side of cabin #1 up thru the upper station over two return sheaves and back to the upper side of cabin # 2.

Phone 489-5852

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All counter weight, idler, and return sheaves are neoprene lined and are 40" dia. fabricated steel sheaves.

Return Station: Structural steel fabricated from beams and channels to support track cable saddles and return sheaves.

The return sheave structure is mounted with hinged shaft connection and tied to track cables on outer side to let sheave alignment fluxuate with track cable. This structure also supports two 8" dia. lead in sheaves and two spring loaded shock absorbers.

Drive station and auxillary system: 45 H.P. D.C. drive thru closed gear and coupled direct to 6' dia. bullwheel. Magnetic type thruster brake is used for service brake. A 40 H.P. volkswagen industrial engine with two speed reversible transmission chain coupled to input side of gear reducer is used for auxillary power.

Electrical safty system: Safety system voltage is carried thru the haul ropes. All sheaves are insulated at the support axels. In the event of derailment of haul rope or contact with any structural frame work or track cable an instant shut down occurs. The haul rope also serves as the telephone line between drive and return station.

Mechanical over speed: If speed exceeds 4.5 meters per second a bullwheel driven centrifical throw out releases preloaded spring to set emergency bullwheel shoe brakes. This brake is also manually operated from control panel with out disturbing preloaded spring.